

Figure S3. BLASTN search results showing that promoter sequences (queries) hit unrelated cDNA sequences (subjects). In a subject, splice junctions, indicated by triangles, suggest that the promoter was generated by a retrotransposition of the subject cDNA. In the case of D, however, its retrotransposition event was validated by polyadenylation. The polyadenylation signal and poly(A) tail of the *COX7C* mRNA are underscored. TSSs that are written in uppercase reside at position 101 in queries. The promoter number in a gene designated in DBTSS is shown following a sharp sign, *e.g.* #3.

A

Query: NM_000534 PMS1 #3 on chr2
Sbjct: NM_198066 GNPNAT1 on chr14

Q: 2 atatgaagaaaatctggggatta---tggtagttacaggatgtgactctaggacaga 58
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
S: 482 atatgaagaaaatctggggattattatgttacaggatgtgactctaggacaga 541

Q: 59 ttgttgctacagcaactctgataatagaacataaaattcatccAttcctgtgctaagagag 118
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
S: 542 ttgttgctacggcaactctgattatagaacataaaattcatccattcctgtgctaagagag 601
▲

Q: 119 taagagttagaagatgttgcgttagttagtgcagaggaaagcagctcggttaattgt 178
||||||| ||||| ||||| ||||| ||||| ||||| |||||
S: 602 gaagagttagaagatgttgcgttagttagtgcagaggaaagcagcttggcaaattgt 661
▲

Q: 179 tagtatcaacccttactttgctaagcaagaaactgaactgttacaagattacccttgaat 238
|| ||||| ||||| ||||| ||||| ||||| |||||
S: 662 tattatcaacccttactttgctaagcaagaaactgaactgttacaagattacccttgaat 721

Q: 239 gtctaccacaaaatgttggttctataaaaagttggatatactgtatctgaagaaaact 298
||||||| ||||| ||||| ||||| ||||| |||||
S: 722 gtctaccacaaaatgttggttctataaaaagttggatatactgtatctgaagaaaact 781

Q: 299 aca 301
|||
S: 782 aca 784

B

Query: NM_178580 HM 13 #2 on chr20

Sbjct: NM_014060 MCTS1 on chrX

Q: 24 ttccctgttgtcgcccgttaccctggatcatgttcaagaagttgatgaaaaggaaag 83
||||||| | ||||||| ||||||| ||||||||| ||||||| ||||||| |||||

S: 227 ttccctatcgtcgcccccttaccctggatcatgttcaagaatttgatgaaaaagaaaa 286
▲

Q: 84 tgtgtccaactgcacccAgttggaaaacgtcagttattaaggcattaagagccaaactgg 143
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 287 tgtgtccaactgcacccAgttggaaaacttcagttattaagggtattaagaatcaattgat 346

Q: 144 agagcaatttccaggtattgaaccatggcttaatcaaatcatgcctaagaaagatcctgt 203
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S: 347 agagcaatttccaggtattgaaccatggcttaatcaaatcatgcctaagaaagatcctgt 406

Q: 204 caaaatagtccgatgccacgaacatacagaaatccttaccgttaagtggaaattattgtt 263
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 407 caaaatagtccgatgccatgaacataaaaaatccttacagtaatggagaattacttt 466
▲

Q: 264 ttttagacaaagaaaggggccttttgtccaactctaa 301
||||||| ||||| | ||||| ||||| ||||| |||||

S: 467 ttttagacaaagagaaggcctttatccaaccctaa 504

C

Query: NM_001002292 GPR177 #2 on chr1

Sbjct: NM_022802 CTBP2 on chr10

Q: 1 atgcccacccatcctgaaaagacactggccactgtggccttctgtgacgcgcagtccacgcaggaa 60
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 1887 atgcccacccatcctgaaggacactggccactgtggccttctgtgacgcgcagtccacgcaggaa 1946

Q: 61 atccacgagaagggttctaa-cgaaggcatgggtaccatgacGtaccacaccatcatcctc 119
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 1947 atccacgagaagggttctaaacgaaggccgtggcgccatgtatgtaccacaccatcaccctc 2006
▲

Q: 120 accagggaggacaccttagaaaagtttaaggccccgagagtatcgatgtgcagataggcagtggc 179
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 2007 accagggaggacctggagaagttcaaggccctgagagtatcgatgtgcggataggcagtggc 2066

Q: 180 tacgataaacgtggacatcaaggctgccagcgagctcgaaattgtgtgtcaatatcccg 239
|| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 2067 tatgacaacgtggacatcaaggctgccggcgagctcgaaattgtgtgtcaacatcccg 2126
▲

Q: 240 tctgcagccgtggaaagagacaccggacttaccatctgccacatcctcaatctgtacc 297
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 2127 tctgcagccgtggaaagagacagcggacttaccatctgccacatcctcaacctgtacc 2184

D

Query: NM_006618 JARID1B #2 on chr1

Sbjct: NM_001867 COX7C on chr5

Q: 1 actagctaagatgtgtttgtactttggatctgcgttgctatacccttcctttagtaag 60
||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

S: 200 actagctaagatgtgtttgtactttggatctgcatttgcacacccttcctttagtaag 259

Q: 61 acaccaactgctaaaacataagggtgtttcagttcctccAtttaacagatatgaagagt 120
||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

S: 260 acaccaactgctaaaacataaggatgtttcagttcctccatttaacagatatgaagagc 319

Q: 121 atttaagagggtgcagcctctggaagttagatcaaactcgaaactcatgtggcatgctagat 180
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S: 320 atttaagagggtgcagcctctggaagtggatcaaactagaactcatatgccatactagat 379

Q: 181 atgttgtcaataaacttatgatgtgaaaaaaaaaaaa 216
||||||| ||||||| ||||||| |||||||

S: 380 atgttgtcaataaacttatgacgtgaaaaaaaaaaaa 415



E

Query: NM_017 852 *NLRP2* #4 on chr19

Sbjct: NM_021029 *RPL36A* on chrX

Q: 1 caaggattttggtatgcccagggaaagtgttatgacaggaagcagagtggctatgg 60
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S: 171 caaggattctctgtacgcccagggaaagcggcgttatgacaggaagcagagtggctatgg 230
▲

Q: 61 tgggcagactaagccgattttccggaaaaaggctaaactAcaaagaagattgtgctaag 120
||||||| |||||||||||||||||||||||||||||||||||||

S: 231 tgggc当地actaagccgattttccggaaaaaggctaaactacaagaagattgtgctaag 290
▲

Q: 121 gctttagtgccttgagcccaactgcagatcta--agaatgtggctattaaaagatacaa 178
||||||| ||||||||||||||||||| ||||||||||||||||| |||

S: 291 gctttagtgcgttgagcccaactgcagatctaagagaatgtggctattaaaagatgcaa 350

Q: 179 gc 180

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S: 351 gc 352

F

Query: NM_021947 SRR #3 on c hr17
Sbjct: NM_031157 HNRNPA1 on chr12

Q: 4 cacatatgccactgaggaggaggatgcagccacgaatgcaaggccacacaagggtgga 63
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
S: 284 cacatatgccactgtggaggaggatgcagctatgaatgcaaggccacacaagggtgga 343

Q: 64 tggaaagagttgttggAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGATGC 123
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
S: 344 tggaaagagttgttggAACCAAAGAGAGCTGTCTCCAGAGAAAGATTCTCAAAGACCAGGTGC 403
▲
Q: 124 ccacttaactatggAAAAGATATTGTTGGCATTAAACGAAGACACTGAAGAAATATCA 183
||||||| || || ||||| ||||| ||||| ||||| |||||
S: 404 ccacttaactgtgAAAAAGATATTGTTGGCATTAAAGAAAGACACTGAAGAACATCA 463

Q: 184 CCTAAGTGATTATTTGAACAGTATGGAAAAACTGAAGTGATTGAAATCATGACTGACCA 243
||||||| ||||| ||||| ||||| ||||| |||||
S: 464 CCTAAGAGATTATTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCG 523

Q: 244 AGGCAGTGGCAAGAAAAGGGGCTTGCCTTGTAAACCTTGATGATCATGACTCCGTG 301
||||||| ||||| ||||| ||||| ||||| |||||
S: 524 AGGCAGTGGCAAGAAAAGGGGCTTGCCTTGTAAACCTTGACGACCATGACTCCGTG 581

G

Query: NM_181808 POLN #1 on chr4

Sbjct: NM_006620 HBS1L on chr6

Q: 1 tcagctcagtggatttaatcaagctcgaaaaattcatgccttgcacatgagagaag 60
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |

S: 406 tcagctcagtggatttgcataaagctcgaaaaattcatgccttgcacatgagagag-g 464
▲

Q: 61 tacttgaggatgctgtgccagatgaaatattgattgaatcAgttctgaagaacaagttg 120
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 465 tacttgaggatgctgtgccagatgaaatattaatttgaaggcagttctgaagaacaagttg 524

Q: 121 atgtgcagaaggcattgtcagaggttctggaaaaacaagatagcatgtagaatttgaaggaca 180
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 525 atgtgcagaaggcattgtcagggttctggaaaaacaagatagcatgtcagagtttgaaggaca 584

Q: 181 agaatgaggaaagagtatctacaggaaagatagcaaaagg 220
||||||| ||||| ||||| ||||| ||||| ||||| |||||

S: 585 agaatgaggcaacagtatctacaggaaagatagcaaaagg 624
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